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		IB No. 263/64
		23 June 1964 Copy No.

MEMORANDUM FOR: Chief, PO43/B2, NSA

ATTENTION

:

FROM

Chief, CIA/PID (NPIC)

SUBJECT

San Men Gorge Dam and Hydroelectric Power Plant

REFERENCES

(1) NSA Requirement No. P056/R1-63 (2) CIA/PID Project No. C 88/63

- 1. This memorandum is in response to the referenced requirement which asks for information concerning construction and equipment installation at the San Men Gorge Dam and Hydroelectric Power Plant located in Communist China.
- 2. The dam and power plant are located on the Huang-Ho (Yellow River), approximately 20 nm SE of Yun-Cheng at geographic coordinates 34 39N 111 20E. The complex appeared to be in mid-to-final stages of construction on the most recent photographic coverage (See Figure #4). The dam and power sections appeared to be in late stages of construction, and the coffer dams used in earlier stages have been removed. Large amounts of silt have accumulated in the reservoir behind the dam. Two

relatively high water with no traces of silt; however, later photography
revealed a much lower water level and considerable amounts of silt deposited in the area in front of the penstock intake grates. The deposit of silt could have a direct bearing on the amount of activity related to the power production of this facility. In order to illustrate the information given above and that which follows, three photoenlargements and a location map have been included as attachments to this memorandum (See Figures 1-4).

- 3. Answers to the specific requests as given in the above referenced requirements are as follows:
 - a. Construction Stage of the Dam Construction of the dam probably started in early 1957 as is indicated by the advanced construction on photography of early 1959 (See Figure #2). The spillway section appeared to be nearing completion and was in use. Coffer dams were diverting river flow from the power generating section, where early stages of construction was getting underway.

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Reviewed by NGA.

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SUBJ	CCT: San Men Gorge Dam and Hydroelectric Pow	er Plant
	The dam appeared essentially completed in The dam extended across the river and a larg behind the dam. In See Figure #4 appeared to be in final stages of constructions of the construction of the constructio), the dam and power section
1,	b. Construction Stage of the Power Pla of the power plant, except for a small secti still uncovered, appeared essentially comple See Figure #4). At this time all of t storage and equipment that was located on th In addition, work on the switching gear, pyl mission lines was well underway and final wo gate cranes was nearing completion. The sta number of units installed within the generat definately determined.	on of the roof which was te on photography he coffer dams and construction e river floor was removed. ons, substation and trans- rk on the gate housings and te of completion and the
	c. Status of Generator and Turbine Ins available ground and aerial photography of t section, did not firmly establish the number However, based on hypothesis, the turbine se and most of the units are probably in place; are probably emplaced. The analysis of the of the generator hall with respect to the tureyeals the position of the generators would turbines which will be fed by penstocks built base on which the generator hall is seated, turbine housing section. This area appears on several occasions by visitors from ground the turbines were not photographed as such, seems to indicate they were installed on or underway on the generators that were installed degree of operation from the photography Ground photography taken from within the gengenerators emplaced. There does not appear on the aerial photography to prove that these installed. At this rate, it is not possible alone, to determine how many of the reported been installed. Judging from all outward appears capable of producing electricity at least Comparison of this power plant construction plants also under construction in China. Fregeneral line of construction can be identificaturbine-well, construction begins on the generators	he turbine and generator of installed units. ctions are probably completed and, two or more generators dam structure and position rbine housing outlets, be directly over the twithin the dam. The is directly above the completed and was photographed vantage points. Although the construction pattern about the time work was so not possible to estimate talled or to estimate attached to this memorandum. erator hall, showed two to be any external indicators two generators have been from aerial photography eight generators have pearances, the power plant to na limited scale. was made with other similar om this comparison, a ed. Upon completion of the erator hall and then it
	same procedure employed at the San Men Plant	declaration and declaration

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Approved For Release 2004/05/05 : CIA-RDP78T05439A000300390056-9

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SJECT: San Men Gorge Dam and Hydroelec	tric Power Plant	
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d. Construction Status between	This	
could not be determined from aerial a dearth of good quality photography	photography alone because there was	
Here again, only a hypothesis can be	made. The Chinese had sufficient	•
material and equipment on hand, the	likes of which are not found in	
many parts of China, to allow them t	to continue with the construction	
work. There probably is not suffici	ent photography nor information,	
available during the six month perio	od to determine precisely, how	
much their construction work was aff	fected. On top of the many	
problems undoubtedly facing the Chin	nese with the construction of this	
dam on the Yellow River, the silt pr	roblem appears to be a major point	
of consideration (as is indicated in	n Figure #4).	
4. The analyst assigned to this req	uirement was who	
y be contacted on extension	should any questions	
	memorandum and attachments completes	
is requirement.	,	
Last.		
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TACHMENTS:		
3 Annotated Photo Enlargements (CIA/PII 1 Annotated Map (CIA/PID/IB-P-937/64)	1	
1 Annotated Map (CIA/PID/IB-P-93//04)		

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